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IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method for the interferometric measurement of non-rotationally symmetric wavefront errors on a specimen ~~which can be~~ capable of being brought into a plurality of rotational positions, the method comprising the steps of determining at least one measurement result ~~being determined~~ in each of the rotational positions, and carrying out a concluding mathematical evaluation of all measurement results ~~being carried out~~, wherein the measurement is carried out in at least two measurement series (M, N), the measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) of each of the measurement series (M, N) being determined in mutually equidistant rotational positions of the specimen, each of the measurement series (M, N) comprising a specific number n, m of measurements, m and n being natural and mutually coprime numbers:, the measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) of each of the at least two measurement series (M, N) are evaluated independently of one another for non-rotationally symmetric wavefront errors ($<W>_m$, $<W>_n$) on the specimen, the difference of the at least two non-rotationally symmetric wavefront errors ($<W>_m$, $<W>_n$) being formed, whereupon the difference ($<W_m - <W>_n$) that is formed is computationally rotated m or n times and the results are averaged out, and whereupon at least one of the wavefront errors ($<W>_m$, $<W>_n$) is corrected with the result ($<<W>_m - W>_n>_m$) averaged in this way.

2. (Currently Amended) The method as claimed in claim 1 or 13, wherein an interferometric absolute measurement is made.

3. (Currently Amended) The method as claimed in claim 1 or 13, wherein in the first measurement series (M), the m measurement results ($M_1 \ldots M_m$) are determined in m equidistant rotational positions of the specimen, whereupon the specimen is displaced into a rotational position not equidistant thereto, which is followed by the lat least one second measurement series (N) in which the n measurement results ($N_1 \ldots N_n$) are determined in the n equidistant rotational positions of the specimen.

4. (Currently Amended) the method as claimed in claim 1 or 13, wherein the individual

measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) of the at least two measurement series (M, N) are determined in an unordered sequence with respect to one another.

5. (Canceled)

6. (Previously Presented) The method as claimed in claim 1, wherein the measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) of each of the at least two measurement series (M, N) are evaluated independently of one another for non-rotationally symmetric wavefront errors ($<W>_m$, $<W>_n$) on the specimen, the difference of the at least two non-rotationally symmetric wavefront errors ($<W>_m$, $<W>_n$) being formed, whereupon the difference ($<W_m>-<W>_n$) that is formed is computationally rotated m or n times and the results are averaged out and whereupon at least one of the wavefront errors ($<W>_m$, $<W>_n$) is corrected with the result ($<<W>_m-<W>_n>_n$) averaged in this way.

7. (Currently Amended) the method as claimed in claim 51, wherein the wavefront error ($<W>_m$, $<W>_n$) is corrected with the averaged result ($<<W>_m-<W>_n>_m$) by addition.

8. (Currently Amended) The method as claimed in claim 613, wherein the wavefront error ($<W>_m$, $<W>_n$) is corrected with the averaged result ($<<W>_m-<W>_n>_n$) by addition.

9. (Currently Amended) The method as claimed in claim 51, wherein the wavefront error ($<W>_m$, $<W>_n$) is corrected with the averaged result ($<<W>_m-<W>_n>_m$) by subtraction.

10. (Currently Amended) The method as claimed in claim 613, wherein the wavefront error ($<W>_m$, $<W>_n$) is corrected with the averaged result ($<<W>_m-<W>_n>_n$) by subtraction.

11. (Currently Amended) the method as claimed in claim 1 or 13, wherein the rotational direction of a relative rotational movement (R) is kept unchanged during the recording of all measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) .

12. (Currently Amended) The method as claimed in claim 1 or 13, wherein the equidistant rotational positions of the measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) of the individual measurement series (M, N) are respectively determined from the ratios of a complete rotation (360°) and the respective number m, n of the measurements of each of the measurement series (M, N).

13. (New) A method for the interferometric measurement of non-rotationally symmetric wavefront errors on a specimen which can be brought into a plurality of rotational positions, at least one measurement result being determined in each of the rotational positions, and a concluding mathematical evaluation of all measurement results being carried out, wherein the measurement is carried out in at least two measurement series (M, N), the measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) of each of the measurement series (M, N) being determined in mutually equidistant rotational positions of the specimen, each of the measurement series (M, N) comprising a specific number n, m of measurements, m and n being natural and mutually coprime numbers, the measurement results ($M_1 \ldots M_m$, $N_1 \ldots N_n$) of each of the at least two measurement series (M, N) are evaluated independently of one another for non-rotationally symmetric wavefront errors ($<W>_m$, $<W>_n$) on the specimen, the difference of the at least two non-rotationally symmetric wavefront errors ($<W>_m$, $<W>_n$) being formed, whereupon the difference ($<W_m>-<W>_n$) that is formed is computationally rotated m or n times and the results are averaged out and whereupon at least one of the wavefront errors ($<W>_m$, $<W>_n$) is corrected with the result ($<<W>_m-<W>_n>_n$) averaged in this way.